

UV/Moisture Cure High-Temp Silicone for Sealing Applications

PRODUCT DESCRIPTION

Incure Pyra-Sil™ 917 is a one-part UV/moisture cure, high temperature multi-substrates silicone adhesive. Cured primarily with UV, it allows for fixation of assemblies in 10 seconds. Hidden/shadowed areas are fully cured in 72hrs at room temperature. Product offers protection against ozone, harsh weather conditions and high temperatures. Incure 917 is often used as form-in-place gaskets (FIPG), conformal coating and also as a sealant in many electronics and industrial applications. Product is designed for both manual brushing and high volume automatic dispensing systems.

CURE SCHEDULE

Primary UV Cure, sec	120
Secondary Moisture Cure, hr	72

UNCURED PROPERTIES

Chemical Type	Vinyl Oximino Silane
Appearance	Translucent
Viscosity, cP (rpm)	35,000 - 55,000
Density, g/ml	1.05

CURED PROPERTIES

Hardness, Shore	A25 - A35
Chemical Resistance	Good
Service Temperature	-45°C to 260°C (-49°F to 500°F)
Peel Strength, PSI (ASTM D790)	N.A.
Tensile Shear, PSI (ASTM D1002-94)	120
Elongation, %	N.A.

ADVANTAGES

Incure Pyra-Sil™ one-part moisture cure silicones cure at room temperature with no curing ovens and the energy costs. Adheres to many metals, ceramics, glass, laminates and plastics. Surface cures within 5 mins and 95% strength achieved from 24 to 72hrs. Heat < 60°C (140°F) may be used to accelerate cure. Excellent physical and electrical properties over a broad range of operating conditions.

Incure, Inc.
1 Hartford Square, Box 16 West,
Suite C-3, New Britain,
CT 06052, USA
Tel: (860) 748 2979
support@uv-incure.com

Incure Adhesives Manufacturing Pte Ltd
33 Ubi Avenue 3 #04-23,
Vertex Tower B,
Singapore 408868
Tel: (65) 6509 3670
www.uv-incure.com



SURFACE PREPARATION

All bonding surfaces must be free from contaminants such as grease, loose particles, oils, corrosive chemical stains etc. Rough or porous material such as metal castings should be baked at high temperature to burn off any embedded contaminants, especially trapped oils and chemicals. Smooth metal surfaces should ideally be abrasive blasted to 0.25mm (0.001") for optimum results.

APPLICATION PROCEDURES

Prepared surface can be coated simply by brushing method, dipping or dispensing (for selective area coating). Products with viscosities lower than 500cP are suitable for use on spraying systems.

STORAGE AND PREPARATION FOR USE

This product carries shelf-life of 6 months in the original, unopened packaging. For optimum results, all Pyra-Sil™ products should be stored in original containers below 22°C (72°F) in a cool dry place. Sealed containers in original packaging are guaranteed for 6 months when stored in the recommended temperature.

NOTE

The data contained in this document are furnished for information only. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein. INCURE will not be liable for any indirect, special, incidental or consequential loss or damage arising from this INCURE product, regardless of the legal theory asserted. INCURE recommends that each user adequately test its proposed use and application before repetitive use, using this data as a guide.